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GORDON RESEARCH CONFERENCES ON POLYMERS(W)(U) RHODE
ISLAND UNIV KINGSTON J J AKLONIS 06 APR 85
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J. J. Aklonis

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The Conference brought together scientists so that they could exchange recent research results and provided a mechanism for the development of close interactions between these scientists. The Conference was attended by 114 conferees. There were 65 scientists from industrial agencies, 15 government participants, and 34 conferees from academic agencies. In addition, there were participants from the following countries: France, Italy, Israel, Japan, Czechoslovakia, England, and West Germany.

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Dr. Donald Ulrich

22b. TELEPHONE (Include Area Code)

(202) 767-4963

22c. OFFICE SYMBOL

NC

GORDON RESEARCH CONFERENCES
ON POLYMERS(W)

Final Project Report

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by

J. J. Aklonis

for the period
7 January 1985 to 6 April 1985

University of Rhode Island
Gordon Research Conferences
125 Pastore Chemical Laboratory
Kingston, RI 02881

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Chief, Technical Information Division

OCT 16 1985

GORODN RESEARCH CONFERENCES

on

POLYMERS (W)

Grant No. AFOSR-85-0110

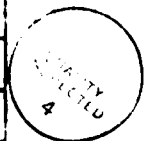
FINAL PROJECT REPORT

This grant provided essential financial support of the Gordon Research Conference on Polymers (W) which was held from January 7-11, 1985 at the Miramar Hotel in Santa Barbara, California. The objective of this Conference was to bring together scientists so that they could exchange recent research results and the Conference provided a mechanism for the development of close interactions between these scientists. The Conference was attended by 114 conferees. There were 65 scientists from industrial agencies, 15 government participants, and 34 conferees from academic agencies. In addition, there were participants from the following countries: France, Italy, Israel, Japan, Czechoslovakia, England, and West Germany.

Lectures were presented in several areas relevant to the theme of this conference. A copy of the program and participant list have been enclosed for your information.

The quality of all of the lectures was exceptionally high and considerable discussion followed each lecture. Many of the conferees expressed very favorable comments about the intellectual stimulation provided by this Conference.

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GORDON RESEARCH CONFERENCES

POLYMERS

July 1-5, 1985
Colby-Sawyer College, New London

Registration List

Alms, Gregory R. Dupont-Eng. Polymers Div. Washington Lab., Bldg. 21 P.O. Box 1217 Parkersburg, WV 26102	B-001	Benham, Judith L. 3M Specialty Chemical Div. 236-1B-3M Center St. Paul, MN 55144	B-109
Altman, Mark B. Goodyear Tire & Rubber Co. Fiber & Polymer R&D D45685, 130 Johnson Ave. Akron, OH 44316	B-305	Bikales, Norbert M. National Science Foundation Polymer Program Washington, DC 20550	B-115
Arthur, Jett 3031 Ridgeway Drive Metairie, LA 70002	B-202	Bliss, Arthur D. American Hoechst Corp. 5100 Bainbridge Blvd. Chesapeake, VA 23320	A-110
Arthur, Laverne (J. Arthur's guest)	B-202	Blumstein, Alexandre University of Lowell Dept. of Chemistry Lowell, MA 01854	B-205
Arzoumanidis, G. Amoco Chem. Corp. R&D Dept., P.O. Box 400 Naperville, IL 60566	BU-221	Blumstein, Rita B. University of Lowell Dept. of Chemistry Lowell, MA 01854	B-205
Austin, Richard G. Exxon Chemical Co. Plastics Tech. Division Baytown, TX 77522	BU-310	Breslow, David S. David S. Breslow Associates 9 Madelyn Ave. Wilmington, DE 19803	BU-222
Bailey, Fred Union Carbide Corp. Technical Center 740 P.O. Box 8361 South Charleston, WV 25303	BU-301	Bulkin, Bernard J. Polytechnic Inst. of N.Y. 333 Jay Street Brooklyn, NY 11212	B-001
Bastide, Jacques C.N.R.S. C.R.M. 91 Rue Boussingault, Strasbourg France 67083	BU-312	Calundann, Gordon Celanese Research Co. P.O. Box 1000 86 Morris Ave. Summit, NJ 07901	B-015
Bauer, Richard G. Goodyear 142 Goodyear Blvd. D/410B Akron, OH 44316	B-203	Carrick, Wayne L. Northern Petrochemical Co. Research & Technology 3100 Golf Road Rolling Meadows, IL 60008	B-105
Bauer, Patricia (R.G. Bauer's guest)	B-203		

Candau, Francoise B-214
C.N.R.S.
Inst. Charles Sadron
6, rue Boussingault
67083 Strasbourg Cedex - France

Candau, S. Jean B-214
Univ. Louis Pasteur
Lab. de Spec.
4 rue Blaise Pascal
67070 Strasbourg Cedex - France

Carlini, Carlo B-316
Dept. of Chem. and Ind. Chem.
University of Pisa
Via Risorgimento 35
Pisa, Italy 56100

Cebe, Peggy B-206
Jet Propulsion Lab.
MS 67-201, Polymer Physics Group
4800 Oak Grove Drive
Pasadena, CA 91109

Chu, Benjamin B-209
State Univ. of N.Y.
Chemistry Dept.
Stony Brook, NY 11794-3400

Cohen, Claude B-003
Cornell University
318A Olin Hall
School of Chem. Eng.
Ithaca, NY 14853

Coleman, Michael M. A suite
Penn. State Univ.
Materials Science & Eng. Dept.
101 Steidle Bldg.
University Park, PA 16802

Culbertson, Bill M. B-104
Ashland Chemical Co.
5200 P.G. Blazer Parkway
Dublin, OH 43017

Culbertson, Cathy B-104
(B. Culbertson's guest)

D'Allest, Jean-Francois B-310
Dept. of Chem.
Univ. of Lowell
Lowell, MA 01852

Dexter, R.W. B-309
American Cyanamid Co.
1937 West Main Street
Stamford, CT 06904

Dreyfuss, Patricia B-207
Michigan Molecular Inst.
1910 W. St. Andrews Road
Midland, MI 48640

Dreyfuss, M. Peter B-207
Michigan Molecular Inst.
1910 W. St. Andrews Road
Midland, MI 48640

Economy, James BU-217
IBM Research Lab.
Mail Code K91/282
5600 Cottle Road
San Jose, CA 95193

Feinberg, Stewart C. B-211
Arco Chemical Co.
3801 West Chester Pike
Newtown Square, PA 19073

Field, Nathan D. B-213
Dartco Mfg. Inc.
P.O. Box 5867
Research & Development
Augusta, GA 30906

Frank, Curtis W. B-005
Stanford University
Dept. Chemical Eng.
Stanford, CA 94305

Furukawa, Akira BU-316
Univ. of Massachusetts
Chemical Eng. Dept.
Goessmann Lab.
Amherst, MA 01003

Galvin, Mary E. B-101
AT&T Bell Lab.
600 Mountain Ave.
Dept. 11519
Murray Hill, NJ 07974

Garrell, Robin L. A-105
University of Pittsburgh
Dept. of Chemistry
Pittsburgh, PA 15260

Gaudiana, Russell Bu-302
Polaroid Corp.
750M-5C
Cambridge, MA 02139

Gaylord, Norman B-318
Gaylord Research Inst.
28 Newcomb Drive
New Providence, NJ 07974

Gaylord, Marilyn B-318
(N. Gaylord's guest)

Gibson, Harry W. BU-203
Signal UOP Research Center
50 UOP Plaza
Des Plaines, IL 60016-6187

Glass, J. Edward B-301
N. Dakota State Univ.
Polymers & Coatings Dept.
Dunbar Hill
Fargo, ND 58105

III Gordon, Bernard BU-202
Penn. State Univ.
Dept. of Material Science
University Park, PA 16802

Granzow, Albrecht
American Cyanamid Co.
Chemical Research Div.
1937 West Manin Street
P.O. Box 60
Stamford, CT 06904-0060

Grayson, Martin BU-313
John Wiley & Sons Inc.
605 Third Ave.
New York, NY 10158

Green, Mark M. BU-204
Polytechnic Inst. of N.Y.
Dept. of Chemistry
333 Jay Street
Booklyn, NY 11201

Gryte, Carl C. BU-305
Columbia University
Dept. of Chemical Eng.
New York, NY 10027

Hadziioannou, Georges BU-304
IBM Research Lab.
Mail Code K91/282
5600 Cottle Road
San Jose, CA 95193

Hart, William P. B-013
Texaco Inc.
P.O. Box 509
Beacon, NY 12508

Hindersinn, R.R. B-215
Occidental Chem. Corp.
Grand Island Research Center
2901 Long Road
Grand Island, NY 14072

Hosaka, Yoshihiro B-009
Japan Synthetic Rubber Co.
Tokyo Research Lab.
3-5-1, Higashi-Yurigaoka
Asao-ku
Kawasaki-shi, Kanagawa
Japan 215

Israel, Stanley C. BU-218
University of Lowell
Dept. of Chemistry
1 University Ave.
Lowell, MA 01854

Jelinski, Lynn W. B-113
AT&T Bell Labs
600 Mountain Ave.
Murray Hill, NJ 07974

Johnson, Dee Lynn B-007
3M Company
3M Center 270 2N4
St. Paul, MN 55125

Jones, R. Sidney BU-205
Celanese Research Co.
86 Morris Ave.
Summit, NJ 07901

Katz, Manfred BU-206
E.I. Dupont De Nemours Co.
Textile fiberts Dept.,
Pioneering Res.
Experimental Station, Bldg. 30
Wilmington, DE 19898

Katz, Thomas Columbia University Dept. of Chemistry Box 259 Havemeyer, Co. Univ. New York, NY 10027	B-201	Langer, Heimo J. Ashland Chemical Co. Research & Development P.O. Box 2219 Columbus, OH 43216	B-317
Kennedy, Joseph P. University of Akron Inst. Polymer Science Akron, OH 44325	BU-219	Lenz, Robert W. University of Mass. Chemical Eng. Dept. Amherst, MA 01003	B-111
Klein, J. Weizmann Institute Rehovot, Israel 76100	BU-207	Levine, Isaac Union Carbide Corp. P.O. Box 670 Bound Brook, NJ 08805	B-302
Koenigkramer, Rusty E. E.I. Dupont De Nemours & Co. P&EP Dept., R&D Division New James Street Towanda, PA 18848	B-219	Levine, Helen (I. Levine's guest)	B-302
Koenigkramer, Betty (R. Koenigkramer's guest)	B-219	Litt, Morton Case West. Reserve Univ. Macro. Science Dept. 10900 Euclid Ave Cleveland, OH 44106	B-217
Kratochvil, Pavel Inst. of Macromolecular Chemistry Czechoslovak Academy of Sciences Prague 6 Czechoslovakia 162-06	BU-213	Litt, M. (Morton Litt's guest)	B-217
Kroschwitz, Jacqueline John Wiley & Sons, Inc. 605 Third Ave. Encyclopedia Div. 9th Floor New York, NY 10158	B-210	Matsumoto, Akira Univ. of Florida Dept. of Chemistry Box 393, Leigh Hall Gainesville, FL 32611	B-310
Kurowsky, Steve R. Polymer Tech. Corp. 33 Industrial Way Wilmington, DE 01887	BU-208	McGrath, James E. VA Polytechnic Inst. Dept. of Chemistry 404 Davidson Hall Blacksburg, VA 24061	BU-201
Kwei, T.K. Polytechnic Inst. of NY 333 Jay Street Brooklyn, NY 11201	B-315	Morowetz, Herbert Dept. of Chemistry Polytechnic Inst. of N.Y. 333 Jay Street Brooklyn, NY 11210	A-112
Landoll, L.M. Hercules, Inc. P.O. Box 8 Oxford, GA 30267	BU-311	Murray, James G. Mobil Chemical Co. P.O. Box 240 Edison, NJ 08810	BU-307

Narang, Subhash Polytechnic Inst. of N.Y. 333 Jay Street Brooklyn, NY 11201	B-009	Quirk, Roderic P. Inst. of Polymer Science Univ. of Akron Akron, OH 44325	BU-210
Okamoto, Y. Polytechnic Inst. of N.Y. Dept. of Chemistry 333 Jay Street Brooklyn, NY 11201	BU-209	Ramireddy, Chittamuru University of Mass. 156 Chemical Eng. Dept. Amherst, MA 01003	B-005
O'Malley, James J. Exxon Chemical Co. P.O. Box 5200 Baytown, TX 77522	BU-306	Reimschuessel, H.K. Allied Corp. P.O. Box 1087R Columbia Turnpike Morristown, NJ 07960	BU-211
Ozcayir, F. Yurdague Univ. of Lowell Chemistry Dept. Lowell, MA 01854	B-212	Reiss, Howard Univ. of California Dept. of Chemistry 405 Hilgard Ave. Los Angeles, CA 90024	B-313
Painter, Paul Penn. State University Polymer Science Section 325 Steidle University Park, PA 16802	A suite	Rempp, Paul F. C.N.R.S. Inst. Ch. Sadronn (CRM-EAHP) 6 Rue Boussingault Strasbourg Cedex France 67083	BU-313
Pariser, Rudolph E.I. Dupont De Nemours & Co. Experimental Station 328/414 Central R&D Dept. Wilmington, DE 19898		Riffle, Judy Mercor, Inc. 2448 Sixth Street Berkeley, CA 94710	
Pearce, Eli M. Polytechnic Inst. of N.Y. Dean of Arts & Sciences 333 Jay Street Brooklyn, NY 11201	B-216	Salamone, Joseph C. University of Lowell Dept. of Chemistry 1 University Ave. Lowell, MA 01854	BU-220
Penley, Jean Industrial Lab. Kodak Park, Bldg. 46 1669 Lake Ave. Rochester, NY 14650	B-208	Salame, Morris Monsanto 101 Graney Street Bloomfield, CT 06002	BU-212
Picot, Claude CNRS CRM 6 Rue Boussingault 67083 Strasbourg France	B-304	Samuels, Sam L. Dupont Co. Experimental Station Wilmington, DE 19898	

Schaeffgen, John R. Eljay Associates Inc. 129 Cambridge Drive Wilmington, DE 19803	B-103	Stepito, R.F.T. Univ. of Manchester Dept. of Polymer Science & Tech. U.M.I.S.T. Manchester England M601QD	BU-306
Schindler, Anton Research Triangle Inst. P.O. Box 12194 Research Triangle Park, NC 27709	B-307	Stidham, Howard D. Dept. of Chemistry University of Mass. Amherst, MA 01003	Bu-314
Schlick, Shulamith University of Detroit Dept. of Chemistry 4001 W. McNicholas Road Detroit, MI 48221	B-210	Suter, Ulrich W. Mass. Inst. of Technology Dept. of Chemical Eng. Room 66-456 Cambridge, MA 02139	Bu-215
Scoggins, Lacey E. Phillips Petroleum Co. 109 CPL, Research & Dev. Dept. Bartlesville, OK 74004	B-308	Thill, Bruce Dow Chemical Co. Strene Molding Polymers 438 Building Midland, MI 48640	BU-216
Shalati, Mohamad Sherwin Williams Co. Research Center/Polymer Tech. 10909 S. Cottage Grove Ave. Chicago, IL 60628	B-011	Tirrell, David A. Univ. of Massachusetts Dept. of Polymer Science & Eng. Amherst, MA 01003	B-013
Sigwalt, Pierre Univ. Pierre Et Marie Curie Lab. De Chimie Macromoleculaire Tour 44-Ler Etage, 4 Place Jussieu Paris 5E France	BU-214	Tirrell, Matthew Univ. of Minnesota Dept. of Chem. Eng. 421 Washington Ave., SE Minneapolis, MN 55102	A-110
Silberman, Ruth State Univ. of N.Y. Dept. of Chemistry 223 Baker Lab. Syracuse, NY 13210	B-204	Ullman, Robert Ford Motor Company Research Staff Science Lab. S-3049 Dearborn, MI 48121	B-303
Snyder, William J. Bucknell University Chemical Engineering Lewisburg, PA 17837	B-314	Vandenberg, E.J. Arizona State Univ. Dept. of Chemistry Tempe, AZ 85287	BU-309
Snyder, Linda (W. Snyder's guest)	B-314	Vandusen, John G. Xerox Corp. Webster Research Center 800 Phillips Road, 0114-39D Webster, NY 14580	BU-303
Stackman, Robert W. S.C. Johnson & Son Inc. 1525 Howe Street Mail Sta. 117 Racine, WI 53403	B-306	Webber, Stephen E. Univ. of Texas Dept. of Chemistry Austin, Tx 78712	BU-308

Wooten, W.C. B-102
Eastman Chemicals Div.
P.O. Box 1972
Building 150B
Kingsport, TN 37662

Wooten, Nancy B-102
(W.C. Wooten's guest)

Wu, Ping-ping B-212
Dept. of Chemistry
Univ. of Lowell
Lowell, MA 01854

Zand, Robert B-107
Univ. of Michigan
Biophysics Research Div.
2200 Bonisteel Blvd.
Ann Arbor, MI 48109

Zand, Charlene B-107
(Robert Zand's guest)

Finelli, A.F. B-312
Goodyear Tire & Rubber Co.
130 Johns Avenue
Akron, Ohio 44316

Yoshikawa, Masakazu B-312
Sophia University
Dept. of Chemistry
7-1 Kioi-cho, Chiyoda-ku
Tokyo, Japan 102

Percec, Virgil B-007
Case Western Reserve University
Dept. Macromolecular Science
Olin Bldg.
Cleveland, OH 44106

Ringsdorf, Helmut A-209
University Mainz
65 Mainz, West Germany

PROGRAM FOR THE 1985 GORDON CONFERENCE

POLYMERS (WEST)

January 7-11, 1985

J.J. Aklonis, Chairman
I.C. Sanchez, Vice Chairman

Monday morning, January 7

Discussion Leader: D.R. Squire
U.S. Army Research Office (U.K.)

"Long Range Electronic Energy Transfer and
Quenching Processes in Aromatic Polymers"

A. Gupta
Jet Propulsion Lab

"Fluorescence Studies of the Morphology of
Composite Polymer Materials"

M.A. Winnik
University of Toronto

Monday afternoon, January 7

Discussion Leader: J. Moacanin
Jet Propulsion Lab

"Polymer-Biomembrane Interactions: Nature and
Consequences"

D. Tirrell
University of Mass.

"Alkyl Chain Flexibility in Liquid Crystal
Polymers via Deuterium NMR"

E.T. Samulski
University of Conn.

Tuesday morning, January 8

Discussion Leader: R.S. Porter
University of Massachusetts

"Fractal Concepts in Polymers, Gels and
Colloids"

H.E. Stanley
Boston University

"Computer Simulations of Fractal Structures in
Materials Science"

P. Meakin
E.I. duPont Co.

Tuesday afternoon, January 8

Discussion Leader: T.L. Smith
IBM Research Labs

"The Retardation Spectrum of Amorphous
Materials Near T_g "

D. Plazek
U. of Pittsburgh

"Phase Equilibrium and Critical Phenomena in
Chemically Reactive Polymer Solutions"

J.C. Wheeler
U.C. San Diego

Wednesday morning, January 9

Discussion Leader: N.W. Tschoegl
California Institute of Technology

"A Comparison of the Viscosity and Diffusivity
of Linear and Branched Polymers"

D. Pearson
Exxon Research

"Properties of Ring Polymers"

A.J. Kovacs
CRM/CNRS

Wednesday afternoon, January 9

Discussion Leader: M. Golub
Moffett Field

"Anionic Synthesis of Multiphase Copolymer
Systems"

J. McGrath
Virginia Polytech. Inst.
and State University

"New Polyaromatics"

J. Stille
Colorado State Univ.

Thursday morning, January 10

Discussion Leader: R.E. Robertson
Ford Motor Corporation

"Physical Aging of Polymers and their Blends"

W. Prest
Xerox Corporation

"A Fundamental Relation between the Breadth of
the Relaxation Spectrum and Relaxation Time
Scale: Application to Volume and Enthalpy
Recovery, Nonlinear Stress-Strain Behavior,
and Melt Rheology"

R. Rendell
Naval Research Lab

Thursday afternoon, January 10

Discussion Leader: I.C. Sanchez
National Bureau of Standards

"An Inorganic Analog of Polyethylene"

D.G.H. Ballard
New Sciences Group, ICI

Poster Session

Friday morning, January 11

Discussion Leader: W. Pavelich
Borg-Warner Chemical Company

"Structure and Properties of Segmented
Polyurethanes"

W.J. MacKnight
University of Mass.

"Order-Disorder in Block Copolymers"

F. Bates
Bell Labs

Poster Session

1. "Direct Evidence for Steric Stabilization of Colloidal Particles Using Block Copolymers", George Hadziioannou, IBM (San Jose)
2. "Phase Separation in Polyurethanes - A Solid State Deuterium NMR Study", Lynn W. Jelinski, Bell Labs.
3. "Entrapment Functionalization of Polyethylene", Dave Bergbreiter, Texas A&M University.
4. "Isothermal and Non-isothermal Crystallization Kinetics of Poly(etheretherketone), PEEK", Peggy Cebe and Su-Don Hong, Jet Propulsion Laboratory.
5. "The Effect of Oxidation on the Electrical Properties of Conjugated Polymers and Intrinsic Conductors", John R. Reynolds, Univ. of Texas (Arlington).
6. "Experimental Study and Mathematical Modeling of Asymmetric Membrane Formation", David S. Soong, University of California (Berkeley).
7. "Will the Distribution of Relaxation Times Change in the Glassy State?", Shiro Matsuoka, Bell Labs.
8. "Spectroscopic Evidence for Ordered Non-Planar Conformations in an n-Alkane Chain", John F. Rabolt and R. J. Twieg, IBM (San Jose).
9. "Simultaneous Differential Scanning Calorimetry and Small Angle X-ray Scattering of Phase Transitions in Polymers", Tom P. Russell, IBM (San Jose) and Jeff T. Koberstein, Princeton University.
10. "Diffusion in Semi-dilute Polymer Solutions by Pulsed Field Gradient NMR", Eric Amis, USC.
11. "Dynamics of a Polymer in a Electric Field", Monica Olvera de la Cruz, NBS/UMASS, and J. Deutsch, ITP, Santa Barbara.
12. "Polymer Rheology and Entanglements", Michael Rubenstein, Bell Labs.
13. "Phase Separation Phenomena in PS/PVME Blends", Charles C. Han, NBS.
14. "Rejuvenation and Physical Aging of Polycarbonate Subjected to Simple Compression and Extension", G. Tevita, W. K. Moonan, and Thor L. Smith, IBM (San Jose).
15. "Electronic Excited State Transport as a Probe of Polymer Structure", Glenn H. Frederickson, Bell Labs.

END

7-87

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